

Check List
of
Manitoba
Flora

[with Notes]



Botany Department
Manitoba Agricultural
College

1922

Prepared by

D. W. Jackson
J. F. Higham
Herbert Groh

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Including Ferns, Horsetails and Club Mosses

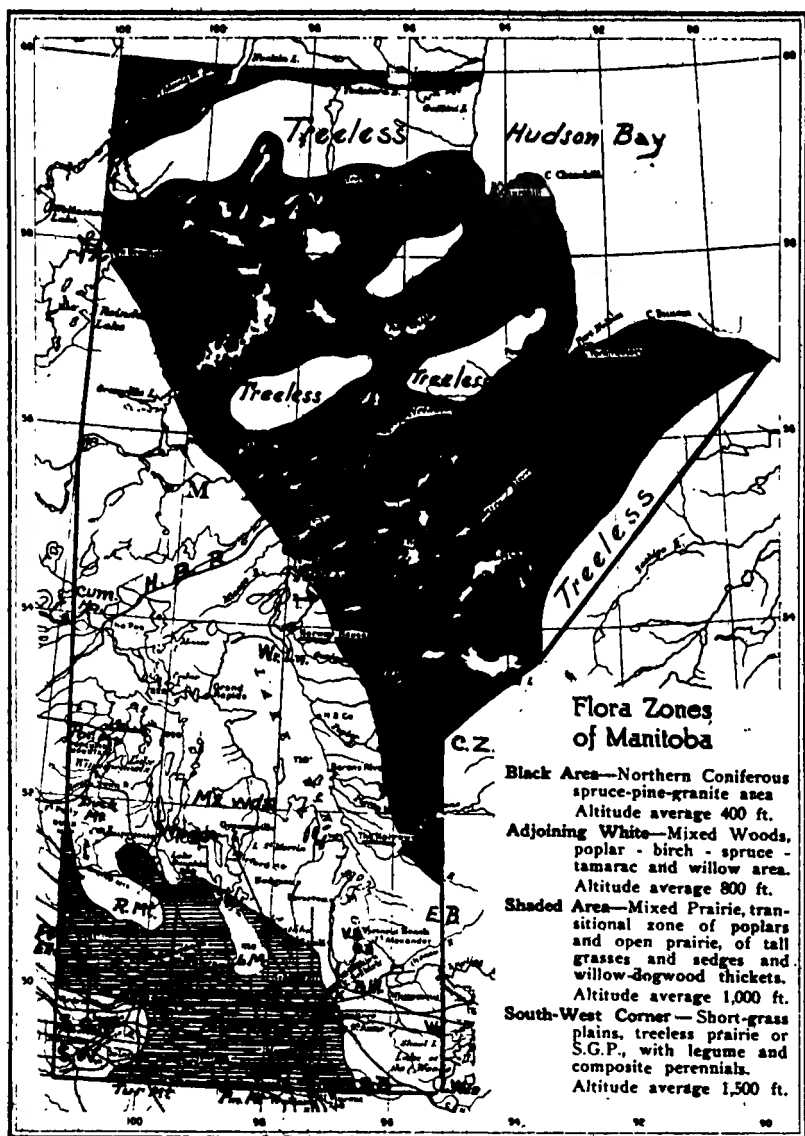
Arranged according to the natural system of classification of Britton & Brown's (B.B.) "North American Flora," and Rydberg (R), whose recent "Flora of the Rocky Mountains and Adjacent Plains" is now the best authority for Western species. His key and naming is similar to that of B.B. When differing, Gray's naming (G) is given in the second column.

Genera in black-face type. Specific name is never with a capital except when the name of a person or a former generic name, and its literal meaning is often given as the common name unless otherwise established locally.

Abbreviations:—

A. annual	W.A. winter annual
Bi. biennial	P. Perennial
Mon. monoecious, pollen and seed separate on the same plant	
Di. dioecious, on separate plants	pns. ponds
Sw. Swamp	ds. ditches
lv. leaves	pr. prairie
fl. flowers	Mx. pr. Mixed pr. & poplar wds.
N.E.W.S. North, East, West, South	var. variable
B. boundary of Province	Wa. Waugh, just inside our E.B.
Intr. Introduced	Wr. Ln. Warren's Landing
R.R.V. Red River Valley	V.B. Victoria Beach
Pm. Pembina Mtns.	G.B. Grand Beach
C.Z. Coniferous Zone. Spruce-pine-granite area.	
L.Wds. Lake of the Woods	K. Kildonan
S.G.P. Short Grass Plains (S.W. Man.) and sand-hills	
C.H. Camp Hughes	B.H. Bird's Hill
R.Mt. Riding Mountains	M. Macoun's survey, 1879-81
M.A.C. Man. Agr. Coll.	B&B. Burman's collection
H.B.R. Hudson Bay Rly.	F. collected by Jas. Fletcher
W.F. "Selected Western Flora" (Hales) 70c.	Good handbook.

Those starred * are new species recently added to the M.A.C. herbarium. (36).



Check List of Manitoba Flora

FERNS. Spores on fronds.

Botrychium	Spores in terminal bunches	
lunaria	Moon-fern (scarce)	Sands. Flat Cr.
obliquum	(ternatum) G.	Moist wds.
virginianum	Virginia grape-fern	L. Wds. M.A.C.
Osmunda	Spores at tip, middle or whole frond	
regalis	Royal fern	Muskeg I. L.Wpg.
cinnamomea	Cinnamon fern (Bur.)	
Claytoniana	Clayton's fern	L. Wpg.
Onoclea	Coarse frond and spore frond	
sensibilis	Sensitive fern	Wet S. Wa.
Matteuccia	(Onoclea) G.	
Struthiopteris	Ostrich fern	Comnest. f. Wpg.
Woodsia		
ilvensis	Rusty Woodsia	Beren's R. Wa.
alpina	Alpine Woodsia	Norway H. rks.
glabella	rare and local	moist rks.
oregana	local	rocks
Filix	(Crystopteris) G.	
bulbifera	Hen and chicken's fern	L. Wds.
fragilis	Brittle fern	general
Dryopteris	(Aspidium) G.	
Thelypteris	Marsh fern	marshes
fragrans	Fragrant Shield-fern	wet rks.
cristata	Shield-fern	swamps
marginalis	Evergreen Wood-fern	rky. wds.
phegopteris	Long Beach fern	moist wds.
Dryopteris	Oak fern	Balsam B. Wa.
Robertiana	Scented Oak fern	E.B. L. Wds.
spinulosa		woods N.
Athyrium	(Asplenium) G.	
filix-foemina	Lady fern	woods
Pteridium	(Pteris) G.	
aquilinum	Bracken	Vic. Beach Wa.
Cryptogramma	Tiny fern, 3in. high	
acrostichoides	Rock brake	L. Wpg. N.W.
Pellaea	Short purple stems	
atropurpurea	Cliff Brake	N. on limstn. rks.
Polypodium	Naked spore clusters	Creeping root
vulgare	Common Polypody	rocks. E.B.

MARSILEACEAE

Four-lvd. Missing Link

Marsilea	like four-lvd. clover	aquatic
vestita†	(mucronata) G. rare in dtchs.	Froude, Sask.

EQUISETACEAE. Horse-tail family. Spores in Cones.

Equisetum	spores in cones	
arvense	Field Horse tail	com. sandy s.
pratense	Meadow Horsetail	general sandy s.
sylvaticum	Wood Horsetail	W. Ln.
palustre	Marsh Horsetail	(Bur.)
fluviatile	Swamp Horsetail	Wa. Ln. L. Wpg.
laevigatum	Smooth Scouring rush	moist clay s.
variegatum	Variiegated Horsetail	
scirpoides	Sedgeliike Horsetail P.	wet wdy. bnks.

LYCOPODIACEAE. Club Mosses. Spore clubs.

Lycopodium	creeping in wds.	C.Z.
annotinum	Stiff Club Moss	dry wds. E.B.
clavatum*	Club Moss	Pt. du B.
complanatum	Ground Pine	Swan L.
Selaginella	Moss-like	
apus	Creeping Selaginella	N.W.
rupestris	Rock Selaginella	Shoal L. Wa. V.B.
densa*	common on barren soil	S.W. S.G.P.

SPERMATOPHYTA. Seed Plants**PINACEAE. Pine Family**

Pinus		
strobus	White Pine	Just enters E.B.
resinos	Red Pine	30mi. S.E. Wn Ln.
Bank	Jack Pine	sand rgs. C.Z.
Larix	Larch	
laricina	(americana) Tamarack	swamps
Picea		
canadensis	(alba) White Spruce	high gr. C.Z.
mariana	(nigra) Black Spruce	wet gr. C.Z.
Abies		
balsamea	Balsam Fir	with Bl. Spr.
Thuja		
occidentalis	White Cedar	wet s. S.E.B.
Juniperus	Xerophytic	Chatfield May 2
communis	Juniper	rky. s. C.Z.
sibirica*	Ground Cypress	C.H. and Cyp. Hls.
horizontalis	(sabina var. procumbens)	Cyp. Hls.
Taxus		
canadensis	(baccata) Ground Hemlock	wds. E.B. Wa.

The MONOCOTS

WATER PLANTS—Several families of rushes, reeds, pondweed, &c., all aquatic

Typha	aquatic	
latifolia	Cat Tail	ditchs. com.
Sparganium	Burweeds. aquatic	
eurycarpum	Burw.	ditchs. and ponds
androcladum	Bur. W.	Cumb. H.
simplex	Simple Bur. W.	Nels. R.
hyperboreum	N.B. Wd.	Ft. Chl.
minimum	Small B.W.	Por. Mts.

Potamogeton	Pondweed Family—aquatic	not all known
pectinatus	Narrow-lvd. P. (W.F.)	com. submrgd.
perfoliatus	Crinkly P. (W.F.)	slow water
zosterifolius	Grass-lvd. P. (W.F.)	com. dtchs.
natans	Pondw.	L. Wds. E.
amplifolius	Large-lvd. P.	pr. ponds
alpinus	N.P.	Nels. R.
heterophyllus	(gramineus) Bur.?	var.
pusillus	(Bur.	
Richardsonii	{ Bur.	Wr. Ln.
mucronatus	(marinus) Inland P.	Wr. Ln.
interior	aquatic	
Zanichellia	Horned Pondw.	Moose Mt. Cr.
palustris	(Arrow Grasses)	aquatic
Triglochin	A.G.	Griswold, Wa.
palustris		Gimli com.
maritima		in bogs
Scheuchzeria	aquatic	N. — H.B.
palustris	Scheuchzeria	
Alisma		
brevipes	Wm. Water Plantain	swmps. and str.
Geyeri	Grey's W.P.	Stur. Cr.
subcordatum	(plantago) American W.P.	dtchs. str.
Sagittaria	Arrow-leaf	aquatic
latifolia	(variabilis) Arrowhead	Reston
Philotria	(Elodea)	Stur. Cr.
canadensis	Water weed	common
GRAMINEAE. The Grasses. 105		
Schizachyrium	(Andropogon)	
Scoparium	Broom Beard Grass	Neepawa
Andropogon	Beard Grass P.	R.R.V. N.Wpg.
furcatus	Forked B. G.	com. purple
Sorghastrum	(Chrysopogon)	
nutans*	Indian Grass	Beaver
Echinochloa	(Panicum) awned.	
crus-galli	Barnyard grass A.	Rds. and gardens
Panicum		
capillare	Tickle grass A.	cul. flds.
barbipulvinatum	Witch grass A.	dry s.
virgatum*	Sand grass A.	Grosse Isle
perlongum	Long Panic	pr. (B.B.)
Scribnerianum	(pauciflorum)	R.R.V.
zanthophyllum	Slender Panic	St. V. Ft. Ell.
Chaetochloa	(Setaria) G.	
viridis	Green Foxtail A.	cul. flds. weed
Zizania		
aquatica	Wild Rice	Stur. Cr.
Homalocenchrus	(Leersia) G.	
oryzoides*	Rice Cut g.	Stur. Cr. Aug. 22
Phalaris		
arundinacea	Reed Canary g.	moist s. Wp. B.
canariensis ~	Canary Grass	wet loc.

Savastana	(Hierochloe) G.	Early May
odorata(borealis)	Sweet Grass	pr. and wet s.
alpina	Alp. Holy Grass	Ft. Ch.
Eriocoma	(Oryzopsis)	
cuspidata	Indian Millet	open pr.
Oryzopsis		May 1st
asperifolia	White Mt. rice	wds. com.
Stipa		
viridula	Feather Bunch G.	pr. A.R.
comata	Needle Grass	Dry pr.
spartea	Porcupine Grass	S.G.P. com W.
Muhlenbergia		
racemosa		
(glomerata)	Wild Timothy	common
cuspidata*	(Sporobolus cuspidata)	St. Norbert
Mexicana*	Satin Grass—	M.A.C.
brevifolia*	Short-lvd. Rush G.	Ft. Garry
Phleum		
pratense	Timothy	general
Alopecurus		
aristulatus	Blue Foxtail.	wet meadows
pratensis	Meadow Foxtail	Intr. M.A.C.
Sporobolus	Dropseeds	wet weed
neglectus	Small Rush G.	Osb. St. Wpg.
heterolepis	Nrn. Ds.	Glenboro
asperifolius	Rough-lvd. Ds.	W. K. Park Gate
depauperatus (M)	Dropseed	damp pr.
Arctagrostis		
latifolia	Arctagrostis	H.B.
Cinna		
latifolia(pendula)	Sweet Reed G.	wet wds. N.
Agrostis		
alba	Red top	wet s. com.
asperifolia	Rough-lvd. Bent	
hyemalis(scabra)	Fool hay	bare s. com.
Calamagrostis	(Deyeuxia) P.	
Langsdorffii	Reed Bent	meadows
canadensis	Blue-joint	wet s. com.
Macouniana	Macoun's Reed G.	pr.
neglecta	Narrow Reed G.	wet pr.
Calamovilfa	(Ammophila) G.	
longifolia	Long-lvd. Sand g.	sand. Grosse I.
Deschampsia		
caespitosa	Tufted Hair Grass	wet s.
Trisetum		
spicatum	Narrow False Oat	H.B.R.
Avena		
fatua	Wild Oat	general weed
Hookeri (pratensis, var. americana)		Rosser
Torreyi (striata)	Purple oat	woods
Danthonia		
intermedia	Wild oat-grass	R.R.V.
spicata	Wild oat-grass	dry soil

Spartina		
Michauxiana	Tall marsh g.	wet s.
cynosuroides	Salt reed grass	R.R.V. com.
gracilis	Inland Cord G	salne s. W.B.
Schedonnardus		
paniculatus	A.	Turtle Mts.
Bouteloua	Prairie Wool?	
oligostachya	Mesquite or Buffalo g.	dry s. S.G.P.
Anthropogon	(Bouteloua)	
curtipendulus	(racemosa) M.	Stony Mt.
Beckmannia		
erucaeformis	Slough grass	sloughs and ds.
Phragmites		
Phragmites (communis)	Reed grass	shores and wet s.
Sphenopholis		
obtusata	Early Bunch G.	R.R.
pallens	Tall Eaton's G.	moist wds.
Koeleria		
cristata	Crested Hair G.	dry pr. com.
Catabrosa		
aquatica	Water Wall G.	York F. H.B.
Distichlis	Di.—collect mates	
spicata	Alkali grass	along hard roads
Dactylis		
glomerata	Orchard grass	cult. fields.
Poa		
annua	Annual Meadow-g.	Wpg. lawns
laxa	Wavy Meadow-g.	Emerson
alpina	Nrn. Meadow-g.	L. Wpgosis.
glauca	Gray Meadow-g.	L. Wpgosis.
pseudopratisensis	Pr. Meadow-g.	pr.
crocata (nemoralis)	L. (caesia) G.	Brandon
triflora	False Red-top.	M.A.C.
pratensis	Kentucky Blue-g.	R.R.V. com.
compressa	Canada Blue-g.	R.R.V. com. My.15
cenisia	Arctic Spear grass	Ft. Ch. N.
arida		pr.
aquatica	(Glyceria arundinacea)	L. Wpg.
Scolochloa		
festucea	Prickled Fescue	Killarney
Panicularia		
nervata	Nerved Manna-g.	wet pr.
grandis	Tall Manna-g.	wet s. com.
fluitans		Nelson R.
Puccinellia		
angustata	Glyceria	
airoides	Arctic Meadow-g.	H.B.
	Slender Meadow-g.	alk. s.
Festuca		
scabrella (M)		Brandon
rubra	Red Fescue	Emerson
ovina	Sheep's Fescue	A.R.
brevifolia	Short-lyd. Fescue	Ft. Churchill
duriuscula (M)	without running roots	H.B.

Bromus		
ciliatus	Fringed Brome	wds. com.
purgans	Hairy Wood Chess	wds. M.A.C.
latiglumis*(R)		wds. M.A.C.
inermis	Awnless Brome	Agricultural
Kalmii	R.R. 182 ¹ Douglas	wds.
breviaristatus	Short-awn Chess	Por. Mts.
Pumpeilianus		Ft. Ell. W.
Lolium		
tenuilatens	Poison Darnel	Dom City
Agropyron		
repens	Eastern Couch-g.	R.V.
Smithii (glaucum)	Western Couch-g.	S.G.P.
dasytachyum		H.B.
teretum	Western Rye G.	native agr.
caninum (Richardsonii)	G. Awnd. Wht.-g.	Wpg. com.
Hordeum		
jubatum	Wild Barley	alk. s.
Elymus		
Macounii	Macoun's Wild Rye	M.A.C.
curvatus	Short-awned W.R.	M.A.C. com.
virginicus	Virginia Lime-g.	M.A.C. com.
canadensis	Canada Lime-g.	R.R. M.A.C.
CYPERACEAE.	Sedge Family	
Cyperus		
inflexus	Awned g. C.	wet sandy s.
Schweinitzii		L. and str.
Houghtoni		sandy s.
Eleocharis		
palustris	Spike rushes	ponds, etc.
acicularis	Creeping S.R.	wet s.
tenuis	Least S.R.	wet s.
acuminata	Slender S.R.	wet s.
pauciflora	Flat-stemmed S.R.	wet s.
Eriophorum	Few-flowered S.R.	wet s.
alpinum	Cotton Grass	
Scheuchzeri	Alpine Cotton-g.	H.B.
callithrix (vaginatum)	Sheathed C.G.	Ft. Ch.
virginicum var. opacum		bogs
gracile	Slender C.G.	Por. Mts.
tenellum	Rough C.G.	H.B.
angustifolium	(polystachyon)	H.B.
viridecarinatum	Thin-lvd. C.G.	bogs
virginicum	Virginia C.G.	Turtle Mts.
Scirpus	Rushes	bogs
pungens	Chair Maker's R.	Brandon
caespitosus	Tufted Club Moss	York F., H.B.
Torreyii	Torrey's B.R.	sw.
occidentalis	(lacustris)	L. Wpg.
validus	(lacustris var. occ.) M.	L. Wpgosis.
rufus	Red Club R.	more slndr. & com.
paludosus	Prairie B.R.	wet pr.
atrovirens	Dark Green B.R.	Nelson R.
pallidus	Pale B.R.	wet s.
cyperinus	Wool Gr.	sw.
maritimus	(fluviatilis) River B.R.	shallow water

Carex

(Perhaps 100 species in Manitoba, 50 identified. Difficult to identify, mostly monoecious, ranging from 1 in. high to several feet. Triangular stems and seeds.

ARACEAE. Arum Family

Calla		
palustris	Wild Calla	Berens R. N.B.
Spathyema		E.B. Wa.
foetida	Skunk Cabbage	E.B.
Acorus		
calamus	Sweet Flag	M.A.C. L.Wg. Wa.

LEMNACEAE. Duckweeds

Spirodela		
polyrhiza	Large D.	pnds. L.Wpg. Wa.
Lemna		
trisulca	Ivy-ld. D.	com.
minor	Lesser D.	pnds. and str. com.

JUNCACEAE. Rushes

Juncus		
effusus	Bog R.	York Factory
balticus	Baltic R.	wet s. com.
bufonius	Toad R.	mud Wr. Ln.
tenuis	Yard R.	moist s.
castaneus	Chestnut R.	York Factory
nodosus	(var. genuinus) Knotted R.	Elk I.
Torreyi	Torrey's R. (nodosus)	wet s.
longistylis		Wpg. W.
alpinus	Richardson's R.	L. and str. com.
Juncoides	(Luzula) G	
caroliniae	Hairy W.R.	M.A.C.
campestre	Common W.R.	L. Wpg.

MELANTHACEAE. Bunch-flower Family

Tofieldia		
palustris	False Asphodel	HB.
Anticlea	(Zygadenus)	poisonous
elegans	Death Camas	moist s.

LILIACEAE. Lily Family

Allium		
stellatum	Pr. Wild Onion	Brandon
cernuum	Nodding Wild O.	Marquette
reticulatum	Fraser's Wild O.	Brandon
Lilium		
philadelphicum	Prairie Lily	open pr.
Asparagus		
officinalis	Asparagus	escaped
Clintonia		
borealis	Yellow C.	moist wds. C.Z.

Vagnera	(Smilacina) G.	6 sepals
stellata	False Spikenard	P. la P.
trifolia	Three-lvd. Solomon's S.	L. Wpg.
racemosa	Many-fl. S.S.	rich wds.
Unifolium	(Maianthemum)	4 sepals
canadense	Two-lvd. Solomon's S.	moist wds. Je. 12
Disporum	Scarlet Berry	solitary
trachycarpum	Rough-fr. Disporum	ws. V.B. Wa.
Streptopus	Twisted Stalk	
amplexifolius	Liverberry	moist wds.
roseus	Sessile-lvd. T.S.	moist wds. V.B.
Polygonatum	True Solomon's S.	May 29
commutatum	(giganteum) Smooth S.S.	moist wds.
Trillium		
cernuum	Nodding T.	rich wds.
declinatum	(erectum) Drooping T.	ws. (M.)
Smilax	Wild Smilax	com.
herbacea	* Carrion Flower	ws. and brakes
Hypoxys		June 25
hirsuta	(erecta) Yellow-eyed G.	Findlay

IRIDACEAE. Iris Family

Iris		June 24
versicolor	Larger Blue Flag	Whitemouth
Sisyrinchium		
angustifolium	Blue-eyed G.	pr. May 24
septentrionale ^(R)	Smaller	moist pr.
mucronatum ^(M)	tftd. narrow lvs.	open pr.
campestre (W.F.)	stiffer, not winged	S.B.

ORCHIDACEAE. Orchid Family.

Cypripedium	Lady's Slipper	
arietinum	L.S.	swamps The Pas
parviflorum	(pubescens) Downy L.S.	Bird's H. June 12
reginae	(spectabile) Showy L.S.	P. la P.
candidum	Small L.S.	bogs
Fisippes	(Cypripedium) G.	
acaulis	Moccasin Flower	sandy wds.
Orchis		
rotundifolia	small, round lvd.	damp wds.
Coeloglossum	(Habenaria)	
bracteatum	Long Bracted O.	ws. com. green
Limnorchis		
hyperborea		bogs, wet wds.
dilatata		rich wds.
Lysias	(Habenaria)	
Hookeriana	(orbiculata)	L. Wpgosis
Lysellia	(Habenaria)	
obtusata		bogs, Por. Mt. N.
Blephariglottis	(Habenaria) G.	
psycodes	Smaller Purple O.	wet wds.

Ibidium gracile	(Spiranthes) G.	Obs. Pt. L. Wpg.
Ophrys convallarioides cordata	(Lysteria) Tway-blade Double-leaf	L. Wpgosis L. Wpg.
Malaxis unifolia monophylla	(Microstylis) G. (ophioglosoides)	L. Wpgosis wds.
Corallorhiza corallorhiza maculata	Coral Root (innata) Early C.R. Large C.R.	Purple moist wds. moist wds. M.A.C.
Cytherea bulbosa	(Cytherea) (borealis) Calypso	Pt. du B. L.G.
Spiranthes Romanzoviana		L. Wpg. N.E.
Peramium ophioides	(Goodyera) (repens) Rattlesnake R.	L. Wpg.
Liparis Loeselii	Fen Orchis	peat bogs
Aplectrum hyemale	Putty Root	wds. and swmps.

DICOTYLEDONS.

MYRIACEAE. Bayberry Family

Myrica gale	Sweet Gale	Pt. du B. W.A.
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SALICACEAE: Willow Family

Populus balsamifera tremuloides deltoides	Balm of Gilead. Black P. Aspen Poplar White P. Cottonwood	moist s. com. Wpg. Planted
Salix candida cordata discolor interior lucida Bebbiana nigra amygdaloides	(di. Collect in pairs. Mates on same date) Sage Willow. small shrub Heart-ld. W. Silver W. (longifolia) Glossy W. (rostrata) Beaked W. Black or Swamp W. large tree	N. shrub shrub sand shrub shrub shrub tree. R.R. A.R. sandy sh.

(The willows cross readily and their identification is difficult.)

BETULACEAE. Birch Family

Ostrya virginiana	Iron Wood Hornbeam (W.F.)	S.E. Man.
Corylus americana rostrata	Hazel Nut. Filbert Short-beaked H.N. Long-beaked H.N.	low l. com. gravel rgs.

Betula	Birch	
lutea	Yellow Birch	sw. C.Z.
papyrifera	Paper B.	N. C.Z. along str.
pumila	Low B.	N. C.Z.
glandulosa	Glandular B.	H.B.R. Wa. L.Wds.
glandulifera		Viriden
fontinalis	Wrn. Red B.	Viriden
Alnus		com. wet pl.
incana	Speckled Alder	bnks. R.R. Wa.
FAGACEAE.	Beech Family	
Quercus		N. to Lat. 52½
macrocarpa	Bur. Oak. com.	R.R.V. Pm.C.H.
ULMACEAE.	Elm Family	
Ulmus		N. to Lat. 54
americana	American Elm	R.R.V. Pm.
Celtis		
occidentalis*	Hack-berry	Delta. L. Man.
CANNABINACEAE.	Hemp Family	
Humulus		
lupulus	Wild Hop	wds. com.
Urtica		
dioica	Stinging Nettle	waste pl.
gracilis	Tall N.	dry s.
urens	Dwarf N.	waste pl.
Urticastrum	Laportea	R. bnks. com.
divaricatum	(canadensis) G.	rich wds. M.A.C.
Parietaria		
pennsylvanica	Pellitory	rks. (Bur.)
LORANTHACEAE.	Mistletoe Family	
Razoumofskyia	(Arceuthobium)	parasitic
pusilla*	Small Mistletoe*	Jack P. V.B.
SANTALACEAE.	Sandalwood Family	
Comandra	(parasitic on roots of other plants)	
umbellata	(Richardsiana) W.F.	dry s.
pallida	Pale C.	dry s. com.
livida	Nrn. C.	moist s. N.
ARISTOLOCHIACEAE.	Birthwort Family	
Asarum	Eastern	exotic
canadense	Wild Ginger	Pm.Ms.Wa. L.Wds.
POLYGONACEAE.	Buckwheat Family	
Eriogonum	Xerophytes	S.G.P.
flavum	Yellow E.	Tl. R29
Rumex	Docks	
acetosella	Sheep Sorrel	A. or P. com.
mexicanus	(salicifolius)	moist s.
crispus	Curled Dock	weed. wet s.
occidentalis	Wn. D.	wet pl.
persicarioides	(maritimus)	water edge

Polygonum

aviculare
erectum
ramosissimum
tenue

Knot Grass
Erect Knotweed
Bushy K.G.
Slender K.G.

Persicaria

lapathifolia
amphibia
Muhlenbergia
Persicaria

(Polygonum)
(var. incanum) Bur.
Hartwrightii G. Water P.
Swamp P. (dimorphic)
Lady's Thumb

Tracaulon

sagittatum*

(Polygonum)
Tear-thumb

Tiniaria

Convolvulus
dumetorum

(Polygonum)
Wild Buckwheat A.
(var. scandens)

backyards
pr. trails
rdsds. and alk. s.

dry s.
(incarnatum)
dths. and sl.
dths. and sl.
dths. and sl.

Wpg. R.E.B.

cul. fids.
wds.

AMARANTHACEAE. Amaranth Family**Amaranthus A.**

retroflexus
graecizans
spinosus*

black glossy seeds
Redroot (A)
(albus) G. Tumble-weed
large, very spiny

waste pl.
with Russ. Th.
Sthwd. Golf C.

CHENOPODIACEAE. Goosefoot Family**Chenopodium A**

album
glaucum
leptophyllum
Boeckianum*
urbicum
hybridum
rubrum

seeds in papery shell
Lamb's Quarters
Oak-leaved Goosefoot
Narrow lvd. G.
slender, lvs, thin, lance
stout, lvs. triangular
Maple-lvd. G.
Coast, Blite (pale red)

everywhere
everywhere
dry s.
M.A.C. and S.W.
Selkirk
shade and grdns.
local

Blitum

capitatum

Strawberry (blood-red)

Monolepis (Blitum)

Nuttalliana

(chenopodioides) G.
Spear-leaved Goosefoot

V.B. R.M. and
H.B.R.

S.G.P.
weed on fids.

Atriplex

hastata
Nuttalliana

(patula var. hastata) G.
shrubby P.

alk. s.
dry alk. S.W.B.

Axyris

amarantoides

Russian Pig-weed

Corispermum

hyssopifolium

Corispermum
Burgessii

1886 F.
everywhere
S.G.P.
sand bks. R.R.

Salicornia

europaea

Salicornia G. Salthorn

Sarcobatus

vermiculatus

Grease-wood
(Suaeda) G.

alk. sl. red
Cypress Mts., Ssk
Wood Mt., W.B.

Dondia

depressa

alk. sl.

Salsola

pestifer (kali var. tragus.) G. Russian Thistle

Worst weed S.W.

Paronychia

depressa*
sessilifolia

forked, branching
like Chickweed
like Dwarf Phlox

dry sand
V.B. Aug. 12
S.W.B.

NYCTAGINACEAE.

Allionia	(Oxybaphus) G.	
hirsuta	Hairy Umbrella-wort	Grand B.
nyctaginea	Heart-lvd. Umbrella-wort	E.B. L.Wds.
Portulaca	Purslane Family	
oleracea	Garden Purslane	gdns. everywhere

ALSINACEAE. Chickweed Family

Alsine	(Stellaria)	
longifolia	Long-lvd. Stitchwort	Wpg. June 16
longipes	Long-stalked Stitchwort	pedicels. erect
crassifolia	Fleshy Stitchwort	wet pl., spr.
borealis	Northern Stitchwort	Ing. bracts, H.B.R.
Cerastium	Moose-ear Chickweeds	
vulgatum	Larger M.E.C.	dry pl. com.
arvense	Field C.	P. com. My. 2nd
nutans	Nodding C.	Narrows, L.Man.
Sagina		
nodosa	Knotted Spurry	N. L. Wpg.
Arenaria		
stricta	Rock Sandwort	L. Wds.
litorea*	Beach Sandwort	(B.B.) Sty. Mt. *
Moehringia	(Arenaria)	
laterifolia		Norway H.
Tissa	(Spergularia)	
marina	Sand Spurry	Stur. Crk.

CARYOPHYLLACEAE. Cockle Family

Agrostemma	(Lychnis)	
Githago	Purple C.	A. or B.
Silene		
noctiflora	Night Flowering Catchfly	Crop weed
antirrhina	Sleepy C.	W.A. weed
Vaccaria	(Saponaria) G.	scarce
Vaccaria	Cow C.	crop weed

CERATOPHYLLACEAE.

Ceratophyllum	Hornwort Family	one species
demersum	Hornwort	N. L. Wpgosis

NYMPHACEAE. Water Lily Family

Nymphaea	(Nuphar)	
advena	Yellow Pond Lily	slow str.
Castalia	(Nymphaea) G.	
odorata	White Pond Lily	Wpg. R. E.B.

RANUNCULACEAE. Crowfoot Family

Caltha		
palustris	Marsh Marigold	May 6, L.Wpg. Wa.
natans	Floating M.M.	Bird's H.
Actaea	Baneberry	Snake Cr., Wa.
rubra	(spicata var. rubra) G.	poplar wds.
eburnea (R)	white variety with slender pedicels	
alba	white berries on stout pedicels, rare	E.B.

Aquilegia canadensis	Wild Columbine	rocky wds.
Delphinium virescens	Larkspur (azureum) G.	Nettley Mrsh. S.L. Wpg. pr.
Anemone hudsoniana cylindrica virginiana canadensis quinquefolia	Red Wind-flower Long-f. A. Tall A. Canada A. (nemorosa) scarce	Minnedosa open pr. sessile lvs. N.B. May 29
Pulsatilla patens	(Anemone) G. open pr. Pasque Fl. Pr. Crocus	Mch. 28, 1910
Myosorus minimus	like Plantain, 2in. high* Mousetail	S.W. Brenda
Ranunculus delphinifolius Purshii lapponicus reptans ovalis abortivus sceleratus recurvatus acris Macounii repens septentrionalis fascicularis	Buttercups (multifidus) G. (multifidus) var. repens) G. Lapland B. (Flammula var. reptans) W.F. (rhomboideus) W.F. Small-fl. C. Celery-lvd. C. Hook's C. Tall B. Hairy B. Creeping B. (repens var. hispidus) reported S. end L. Wpg.	com. aq. (W.F.) bogs N. sand sh. pr. com. Apr. Wpg. com. wet ditches E.B. L. Wds. not com. com. wet gr. (M.) doubtful
Batrachium trichophyllum circinatum	(Ranunculus) G. (aquatilis) G. stiffer sp.	aquatic Shoal L. dtchs. com. (W.F.)
Halerpestis Cymbalaria	(Ranunculus) G. Seaside Crowfoot	sandy sh.
Thalictrum (P) dasycarpum venulosum dioicum sparsiflorum (R)	lvs. fernlike, fls. di. (mates) Purple Meadow-rue, large lvs. Veiny M.R. Early M.R. (R) scarce. base Por. Mts. H.B. (R)	small lvs.
Adonis annua	Bird's Eye	escaped
Clematis virginiana verticillaris (G)	Vine Di. Virginia Bower Purple V.B.	S. end L. Wpg. H.B. and N.B.

MOONSEED FAMILY

Menispermum canadense	Canada M.	com. in wds.
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POPPY FAMILY

Sanguinaria canadense	Bloodroot	one rcd. P.Mt.(M)
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FUMARIACEAE. Fumitory Family

Capnoides (Fumaria) Corydalis	
sempervirens	Pink C.
aureum	Golden C.
	rocky E.B. poplar wds.

CRUCIFERAE. Mustard Family

Draba	Whitlow Grasses	
incana	Hoary Whitlow G.	L. Wpgois.
nemorosa	a weed	com. May
Alyssum	Candytuft	
alyssoides	(calycinum)	escaped
Lesquerella	Bladder Pod	
argentea	Silvery B.P. (star-like hairs) pr. bi.	
Camelina		
sativa	False Flax (large seeded sp.) weed.	W.A.
microcarpa	Small seeded F.F.	intr. from Eu.
Bursa	(Capsella) G.	
pastoris	Shepherd's Purse W.A.	weed
Neslia		
paniculata	Ball Mustard (weed)	Ochre R. com.
Radicula	(Nasturtium) G. Water-cress	
palustris	Marsh-cress	
hispida	Rough M.C.	Portage
Sisymbrium	(Radicula)	
Nasturtium-aquaticum	True Water C.	str. E.B.
Lepidium	Pepper Grass	
densiflorum	(apetalum) (intermedium) G.	weed com.
sativum	Garden C.	escaped
draba*	Hoary C.	Bran. Exp. Farm
Thlaspi		
arvense	Frenchweed. Stinkweed	
Sophia	(Sisymbrium)	
pinnata	(canescens) G. (Bur.)	
incisa	Green Tansy Mustard	weed.
Hartwegiana	(incisum var. H.) Grey T.M.	more com.
Cheirinia	(Erysimum) G.	
cheiranthoides	Wormseed M.	weed
inconspicua	(parviflorum) G. pedicels	stout, short
aspera	Western Wallflower	Neepawa
Norta	(Sisymbrium) G.	
altissima	Wormseed M.	S.E. weed
Conringia		
orientalis	Hare's Ear	W.A.
Barbarea		
stricta	(vulgaris var. stricta) G.	Red Deer L.M.
Arabis	Rock Gresses	
lyrata	small 4 ins.	L. Wds. E.B.
hirsuta	Hairy Rock C.	(Bur.)
glabra*	Tower M. 2-4 ft.	Stonewall
Drummondii (Bur.)	scarce	rky. cliffs
brachycarpa	Purple Rock C. B.B.	sand or gr.
Holboellii (retrofracta)	long purple pods turned down, open pr.	

Sinapis	(Brassica) sinapistrum	
arvensis	Wild Mustard Charlock	Weed A.R.
Brassica		
junceae	Indian Wild M.	com. W.
campestris	Bird Rape.	clspng. lvs. scarce
Raphanus	scarce	
raphanistrum	Wild Radish, purple veins or petals.	escaped

CAPPARIDACEAE. Caper Family

Cleome	showy, purple fls., lvs. like clovers.	
serrulata (intergrifolia)	Spider Flower	St. Andrew's Lks.

SARRACENIACEAE

Sarracenia	Pitcher Plant	peat bogs
purpurea	McGr. Wgos. M. & GWWry.	Riverton, E.B.

DROSERACEAE.

Drosera	Sundews	
rotundifolia		Gimli, Wr.Ln. Wa.
intermedia		Por. Mt. Lat 53
longifolia		Cumb. H. Lat 54
linearis		Rosseau R.

PARNASSIACEAE.

Parnassia	Grass-of-Parnassus	
caroliniana		E.B.
palustris		Sw. R. Cmpr.
		Wr. Ln. Wa.

SAXIFRAGACEAE. Saxifrage Family

Leptasea	(Saxifraga)	
tricuspidata	Three-toothed S.	N. end L. Wpg.
Chondrosea	(Saxifraga)	
Aizoon		Shoal L. (Cox)
Heuchera		
hispida	Alum Root	com. wet pr.
Mitella	(tiny feathery petals)	
diphylla	Two-leaved Mitrewort.	(Bur.)?
nuda	Bishop's Cap	W-L. Man. Sw.R.
Ribes		
hudsonianum	Northern Black Currant	L. Wpgosis.
triste	American Red C.	cold swmps.
glandulosum	(prostratum) G. Fetid C.	Pt. du B.
americanum	(floridum) G. Wild Black C.	Por. Mts.
Grossularia	Gooseberries	
Cynosbati	Wild G.	
setosa	(oxycanthoides) G. Bristly	G.Pm. Mt.

ROSACEAE. Rose Family

Spiraea	Meadow Sweet	com. June 26
alba (salicifolia)	G. American M.S.	
Potentilla	Cinquefoils	
millegrana	(rivalis var. millegrana) G.	damp s.
monspeliensis	(norvegica) G. Norway C.	dry s.
pentandra	Five-stemmed C.	sandy s.
argentea	Hoary C.	(Bur.)
effusa	Branched C.	high 1 S.G.P.

Potentilla—continued

Hippiana	Woolly C.	dry s.
hipinnatifida	Plains C. (com. rusted)	dry s.
pennsylvanicus	Plains C.	dry s.
Argentina	(Potentilla) G.	
anserina	Silver Weed	undrained s.
Comarum	(Potentilla) G. red fls. long fr.	seeds in pits
palustre	Marsh C.	H.B.R. G.B.
Fragaria	Strawberry	
canadensis	Nrn. Wild S. (virginiana) G.	seeds in pits
americana	Wild S. (vesca) G.	seeds not in pits
Sibbaldiopsis	(Potentilla) G.	
tridentata	Three-toothed C.	E.B. Pt du B. Wa.
Dasiphora	(Potentilla) G.	com. N.W. Wa.
fruticosa	Shrubby C.	Gladstone
Drymocallis	(Potentilla) G.	scarce
agrimonioides	(arguta) G. Tall C.	dry pl.
Chamaerhodos		scarce
Nuttallii	(erecta) G. American C.	dry pr. sl.
Agrimonia	Agrimony a bur.	
gryposepala	(Eupatoria) Bur.	shady bluffs
Geum		
macrophyllum	Large-ld.	E.B.
strictum	Yellow Avens	com.
rivale	Water A.	swmps.
Sieversia	(Geum)	styles not jntd.
ciliata	(triflorum) Three-fl. A.	dry pr. com.
Rubus		
Chamaemorus	Baked Apple Berry	Por.Mts. N.B.W.L.
strigosus	Wild Red Raspberry	com.
arcticus	Arctic Bramble	N.W. Wa. Pr. Mts.
triflorus	Dewberry	com. A?
Rosa		
blanda	Smooth Wild Rose	bluffs
pratincola (arkansana)	G. (suffulta) R. Pr. R.	S.G.P. weed
(The roses hybridize and are difficult to identify, but we have many forms.)		

MALACEAE. Apple Family

Sorbus	(Pyrus) G.	
americana	American Mt. Ash	I.L. Wpgosis.
scopolina	(sambucifolia) M. Wrn. M.A.L.	Wpg. N.
Amelanchier		
alnifolia	Saskatoon Berry	com. var.
Crataegus	Hawthorn	
coccinea	(of early botanists). More than one species occurs but the group needs study.	

AMYGDALACEAE. Plum Family

Prunus		
americana	Wild P.	Morden
nigra	Canada P.	com.
pumila	Sand Cherry	G.B.
Besseyi	Wrn. Sand C.	exp. hls.
pennsylvanica	Pin C. trees	Mdn. Sw.R. H.B.R.
Padus	(Prunus) G.	in racemes
virgiana	Chokecherry	com.

LEGUMINOSAE. Bean Family

Thermopsis rhombifolia	Pr. Bean curved pods	sand hls. W.B.
Medicago sativa falcata lupulina	Alfalfa, Lucerne, P. Yellow Alfalfa Black Medic	escapes cult. escapes cult. com. A.
Melilotus alba officinalis	Sweet Clovers White Sweet C. Bi. Yellow Sweet C. Bi.	escape wild, Portage
Trifolium pratense repens hybridum	Red Clover White Dutch. C. Alsike C.	escaped cult. in lawns pink, spr.
Hosackia americana	Bird's Foot Trefoil (Purshiana) Bur.	S.B.
Psoralea argophylla esculenta	Silver leaf Ps. Dakota Turnip	R.R. St. James Carberry W.
Amorpha fruticosa nana (microphylla) canescens	Showy Shrubs, deep purple fls. False Indigo River Locust G. Dwarf I. Lead Plant	banks R.R. drp pr.
Petalostemum candidum purpureum (violaceum) G.	Prairie Clovers White P.C.	drp pr. drp pr.
Geoprumnon (R) crassicaupum	(Astragalus) G. Ground Plum	S.B. Manitou
Astragalus carolinianus adsurgens Hypoglottis bisulcatus pectinatus alpinus* lotiflorus aboriginorum flexuosus	Milk Vetches (R. makes 13 Can. M.V. gr.—yellow fl. Purple M.V. hairy pods, grooved Two-groove M.V. Narrow-ld. M.V. Northern M.V. Woolly, dwarf, rare Indian M.V. (long yellow rt.) Slender M.V.	genera) com. com. com. Reston S.G.P. H.B.R. S.G.P. S.B. dry pr. W.B.
Homalobus tenellus	(Astragalus) G. (multiflora) G. (Bur.)?	dry hls. W.B.
Phaca americana	Arctic M.V.	H.B.R. N.R.
Orophaca caespitosa	Woolly, dwarf M.V. (Zins.)	Reston W.B.
Oxytropis gracilis (R)* Lamberti splendens (R) Richardsonii (R) deflexa (G)	(Aragallus) R. gives 34 species for the West (campestris) G. Smooth yellow Loco. opn. wds. Purple L. variable, poisonous pr. Showy L. woolly. lvs. in wheels. Small L. W.F. Flat L. flowers small (Sweet-root) Liquorice	S.G.P. hls. S.W. Cumb. H.W. scarce, sand W.
Glycyrrhiza lepidota	Wild Liquorice, pointed lvs.	rusts badly gen.
Hedysarum boreale Mackenzii	Hedysarum N.W.	Minneapolis W. Hayes R.

Meibomia	(Desmodium) G.	Norway H.
canadense	Showy Tick-trefoil	
Vicia	Vetches, tendrils and sml. lvs.	
americana	Purple V.	moist s. com.
sparsifolia (R)	(linearis) Narrow lvd. V.	open pr.
Lathyrus	large lvs. and tendrils	
ochroleucus	Pale Vetchling	early, pop. wds.
venosus	Veiny Peavine	purple fls. com.
palustris	Marsh Vetchling	nrrw. lvs. wet s.
maritimus (W.F.)	Beach Pea	L. Man. L. Wpg.
Falcata	(Amphicarpa)	
comosa	(monoica) Hog Peanut	rich wds. com.
GERANIACEAE. Geranium Family		
Geranium		
Robertianum	Herb Robert (Bur.) a.	moist wds. E.B.
maculatum	Perennial Crane's Bill	moist wds. E.B.
carolinianum	Dense C-b. a.	brnt. wds. bare s.
pusillum	Small C-b. a.	intr. towns
Erodium		
cicutarium	Alfilaria a.	Dufresne
OXALIDACEAE. Wood-Sorrel Family		
Xanthoxalis	(Oxalis) G. Stemmed and yellow fls.	
stricta	Upright W.S.	Morden, M.A.C.
corniculata	Creeping W.S.	com. June 15
LINACEAE. Flax Family		
Linum	Flax	
Lewisii	Native Perennial F.	wdy. rt. dry pr.
usitatissimum	Cultivated F. a.	escapes, rds.
sulcatum	yellow fls. a.	rare, A.R. W.B.
BALSAMINACEAE. Jewel-weed Family		
Impatiens		
biflora (fulva)	G. Touch-me-not a.	mst. shde. Wpg. B.
pallida (W.F.)	Pale T.	mst. shde. W.
POLYGALACEAE. Milkwort Family		
Polygala		
senega	Seneca Snakeroot p.	com. on pr. My 24
paucifolia*	Fringed Indian Pink p.	Ochr. R. June 7
EUPHORBIACEAE. Spurge Family		
Chamaesyce	(Euphorbia) Spurge	
serpyllifolia	Flat Red S. a.	com. bare gr.
glyptosperma	Flat Green S. a.	dooryards
Tithymalopsis	(Euphorbia) G.	
Peplus	Petty S. a.	Morden
Esula*	Leafy S.	Carberry, intr.
lucidus*	Shining S. intr. with seeds in fls.	
CALLITRICHACEAE. Aquatic		
Callitriche		
autumnalis	Water Star-wort (B.B.)	rng. water
EMPETRACEAE. Crowberry Family		
Empetrum		
nigrum	Black C.	bgs. wet rcks.

ANACARDIACEAE. Sumac Family

Rhus		
glabra	Upland S.	S 12, T 2, R 6
Toxicodendron	(Rhus) G.	
radicans	(Toxicodendron) Poison Ivy very com.	

CELASTRACEAE.

Celastrus		
scandens	Climbing Bittersweet	com. in wds.

ACERACEAE. Maple Family

Acer		
spicatum	Mt. Maple, shrub	E.B. G.B. R.Mts.
Negundo	Ash-lv. M. Man. M.	R. banks

RHAMNACEAE. Buckthorn Family

Rhamnus	oat rust host.	E.B.
alnifolia	Buckthorn, shrub	M.A.C. wt.wds. N.
Ceanothus	shrubs. 3 lobed dry berry	
ovatus	Smaller Red Root	dry sand E.B.

VITACEAE. Grape Family

Vitis	our one sp. is variable in lf. and fruit	
vulpina	(cordifolia) G. River G.	N. to Gimli
Parthenocissus	(Ampelopsis) Psedera. G.	
quinquefolia (R)	Virginia Creeper	intr.
vitacea	no aerial roots or tendril discs	wds. R.R.V.

TILIACEAE. Linden Family

Tilia		
americana	Basswood	R. bnks. and Pm.

MALVACEAE. Mallow Family

Malva		
rotundifolia	Round-leaved M. bi.	intr. grd. weed
Malvastrum		
coccineum	Red False M. p.	com. S.W.B.

HYPERICACEAE. St. John's Wort Family

Hypericum		
Ascyron	Tall St. J. W. (4ft.) p.	p. banks E.B.
ellipticum	punctate lvs., yellow fls. p.	p. wet s.
mutilum	Dwarf S.J.W.	low gr. E.B.
majus	(canadense var. majus) lance lvs.	E.B.
Triadenum	(Hypericum) Elodes G.	
virginicum	Marsh S.J.W.	L. Wpg. H.B.R.

CISTACEAE. Rock Rose Family

Crocianthemum	(Helianthemum)	
canadense.	Frostweed	sandy s. McG.
Hudsonia		
tomentosa*	False Heather	shores. V.B.
Lechea		
minor?	Lesser Pin Weed p. (M)	N. side L. Wpg.
stricta	Pin weed p.	dry pr.

VIOLACEAE. Violet Family

Viola

pedata	Crowfoot V.	com.
cucullata	Common Blue V.	wet s.
pedatifolia	(delphinifolia) Larkspur V.	moist pr.
palustris	Marsh V.	wet s.
renifolia	Kidney-lvd. V.	Nrn.
blanda	Sweet V.	moist shade
Nuttallii	Nuttall's V.	dry s. Wpg.
pubescens	Downy Yellow V.	Rich wds.
canadensis	Canada V.	wds.
adunca	(canina) Bur.	
	var. sylvestris (Bur.)	
pallens	Northern White V.	cold bogs Wa.

LOASACEAE.

Nuttallia	Mentzelia) W.F.)	S.W.B.
decapetala	Showy Mentzelia p.	Boissevain

CACTACEAE.

Coryphanta	Mammillaria (W.F.) (Opuntia) G.	
vivipara	Purple Cactus	dry s.
missouriensis	G. Nipple C.	dry s.
Opuntia		
polyacantha	Prickly Pear	W. Man.
fragilis	Brittle Opuntia	Rocks Wa.

ELEAGNACEAE. Oleaster Family. shrubs

Eleagnus	Wolf Willow?	June
argentea	Silver Berry	com. Wpg. W.
Lepargyrea	(Shepherdia)	Apr.
canadensis	Can. Buff. Berry	Gimli. W.
argentea	Buff. Berry	L. Man.

ONAGRACEAE. Evening Primrose Family

Isnardia		
palustris	Marsh Purslane	mud. ditches.
Chamaenerion	(Epilobium)	Calyx t. short
angustifolium	Great Willow Herb p.	dry s.
Epilobium		
palustre	Swamp W.H.	bogs, wet s.
strictum	Soft W.H.	rare, wet s.
paniculatum	Panicled W.H. (Bur.)	
coloratum	Purple-leaved W.H.	low gr.
adenocaulon	Northern W.H.	moist s.
latifolium	near H.B.	Ch. R.
lineare	(densum) W.F.	wet s.
Oenothera		
biennis	Evening Primrose bi.	com. weed
Anogra	(Oenothera)	
albicaulis	(pallida) W.F. White-stem E.P.	a. or bi. pr.
Nuttallii	Nuttall's E.P. p.	pr.
Kneiffia	(Oenothera) L.	
pumila	Small Sundrop	E.B. L. Wds.
Pachylophus	(Oenothera) W.F.	
caespitosa	Scapose Primrose	Reston. W.B.

Lavauxia	(Oenothera) W.F.	
triloba	Three-lobed P.	S.W.
Meriolix	(Oenothera) W.F.	
serrulata	Tooth-leaved E.P.	limestone R.R.
Gaura		
coccinea	Scarlet Gaura	dry pr. S.W.
Circaea		
alpina	Enchanter's Nightshade	cold wds. E.B.

HALORAGIDACEAE. Water Milfoil Family

Hippuris		
tetraphylla	Four-leaved Mares-tail	Yk. Fact.
vulgaris	Joint Weed	swmps.
Myriophyllum		
spicatum	Spiked Water Milfoil	deep water
verticellatum	(var. pectinatum) W.F.	Por. Mts. (M)

ARALIACEAE. Ginseng Family

Aralia		
racemosa*	Giant Spikenard (Golden)	rich wds. V.B.
nudicaulis	Wild Sarsaparilla	wds.
hispida	Bristly S.	Wr Ln., V.B., Wa.

AMMIACEAE. (Umbelliferae) Carrot Family

Sanicula		
marylandica	Black Snakeroot p.	rich wds.
Washingtonia	(Osmorrhiza) p.	
longistylis	Sweet Cicely	wds. Wpg.
divaricata	Western S.C.	wds.
Claytonii	Hairy S.C. (W.F.)	rich wds.
Cogswellia	(Peucedanum) G. (Lomatium) W.F.	
foeniculaca	Hairy Meadow P. p.	L. Wpg.
orientalis	White-fl. P. (W.F.) p.	dry sand S.
Heracleum	Big Leaf	
lanatum	Cow Parsnip p.	moist gr.
Thaspium		
trifoliatum	Purple Meadow P. p.	wds.
Zizia		
aurea	Early Mdw. Parsnip	wds. com.
cordata	Heart-lvd. Alexander's	pr. com.
Musineon		
divaricatum	Leafy Musineon p.	Pm. dry hills
Sium		
cicutaefolium	Water Hemlock p.	dtchs., swmps.
Cicuta		
maculata (virosa)	Bur. Cowbane (poisonous)	wet gr. A.R.
Carum		
carui	Caraway (escaped)	Gimli Pine R. Strbk.

CORNACEAE. Dogwood Family

Cornus		
stolonifera	Red Osier Dogwood	moist s.
Baileyi	Dogwood (listed as present in B.B.)	
canadense	Dwarf Cornel. Bunch Berry Can. Zone	

PYROLACEAE. Wintergreen Family

Pyrola	Shin Leaf	
asarifolia	(rotundifolia) var. asarifolia)	G. wds. pink com.
secunda	One-sided W.	wds.
americana	(rotundifolia) White fl.	N. Man.
chlorantha	Greenish-flowered W.	wds., sandy s.
elliptica	Shin Leaf	dry wds.
Moneses		
uniflora	One-flowered W.	cold wds. N.
Chimaphila		
umbellata	Pipsissewa	Vic. B. —

MONOTROPACEAE. Indian Pipe Family

Monotropa	(saprophytic)	
uniflora	Indian Pipe	rich moist wds.

ERICACEAE. Heath Family

Ledum	Labrador Tea	C.Z. wet mx. pr.
decumbens (palustre)	W.F. Narrow-lvd.	L.T. Whiteth.
groenlandica (latifolium)	L. Tea	Bird's Hl.
Kalmia		
polifolia (glauc)	Swamp Laurel	bogs E.B.N.
Cassiope		
tetragona	Cassiope	bogs
Chamaedaphne		
calyculata	Dwarf Cassandra	bogs
Andromeda		
polifolia	Wild Rosemary	bogs
Epigaea		
repens	Trailing Arbutus	rocky wds.
Gaultheria		
procumbens	Spring Wintergreen	wds. E.B.
Uva-Ursi	(Arctostaphylos)	
Uva-Ursi	Bearberry	dry sandy s.

VACCINACEAE. Huckleberry Family

Gaylussacia		
baccata	Huckleberry	sandy wds.
Vitis-Idaea	(Vaccinium) L.	
Vitis-Idaea	Mtn. Cranberry	Bird's Hl.
Vaccinium		
uliginosum	Bog Bilberry	swmps. N.
canadense	Blue Berry	moist pl.
angustifolium	(pennsylvanicum)	N. Man.
Chiogenes		
hispidula	Creeping Snowberry	cold wds.
Oxycoccus	(Vaccinium) G.	E.B. N.
Oxycoccus	Small Cranberry	Giroux, N.
macrocarpus*	Large Commercial C.	bogs

PRIMULACEAE. Primrose Family

Primula	Primrose	N.W.
farinosa	Mealy Pr.	Solsgirth
mistassinica	Mistassini Pr.	L. Wpgosis.

Androsace		
occidentalis	Wrn. Androsace	dry sand S.B.
puberulenta	(W.F.)	dry s.
septentrionalis	(W.F.) and perhaps diffusa	gravel rdgs.
subumbellata	(W.F.)	dry s.
Lysimachia		
terrestris	Bulb-bearing Loosestrife	swmps.
Steironema		
ciliatum	Fringed L.	moist wds.
quadriflorum	Linear-leaved L.	R. sides
Naumburgia		
thrysiflora	Tufted L.	Ochre R.
Trientalis		L. Man. E.
americana	Star-flower	damp wds.
Glaux		
maritima	Glaux	Saline mud, Hdgy. Stur. Ck.
Centunculus		
minimus	False Pimpernel	damp pr.
Dodecatheon		
media	Shooting Star	alk. s. pr. S.W.
OLEACEAE. Olive Family		
Fraxinus		
nigra*	Black Ash	G.B., Gimli
pennsylvanica	(viridis) Green A.	str. wet pl.—54
GENTIANACEAE. Gentian Family		
Gentiana	all late flowering	Annuals
crinita	Fringed G.	low pr.
procera	serrata (Bur.)	dry ditches
ventricosa	Swollen G.	Cumb. H. H.B.
acuta	(Amarella) Nrn. G.	Benito
propinqua	Four-p. G.	H.B.W.
Dasystephana	(Gentiana)	Perennials
affinis	Oblong-ld. G.	moist s.
puberula	Downy G. (M)	pr. W.R.R.
Andrewsii	Closed G.	moist wds.
flavida	(alba) Bur.	moist wds.
Halenia		A. or Bi.
deflexa	Spurred G.	cool wds.
MENYANTHACEAE.		
Menyanthes		
trifoliata	Buckbean	bogs, W.A.
APOCYNACEAE. Dogbane Family		
Apocynum		
androsaemifolium	Spreading D.	perennials
canabinum	Indian Hemp	fids., wds.
sibiricum	(var. hypericifolium) M.	fids., wds.
ASCLEPIADACEAE. Milkweed Family		Brenda, S.B.
Asclepias		
syriaca	(Cornuti) G. Com. M.	Perennials
ovalifolia	Dwarf M.	rich s.
verticillata	Whorled M.	Reston, W.
speciosa	Showy M.	dry l. thkts.
incarnata	Swamp M.	moist s.
		Gimli, W.

Acerates
viridiflora Green M. dry s.

CONVOLVULACEAE. Morning Glory Family

Convolvulus
sepium Great Bindweed along str.
repens Trailing B. Tur. Mts.
spithameus Low B. dry rds. Mrsrs.

CUSCUTACEAE. Dodder Family (Parasitic)

Cuscuta Twine to right like hops
arvensis Field D. on Lygodesmia
Gronovii Aster D. on potatoes, willws.

POLEMONIACEAE. Phlox Family

Phlox
Hoodii Hood's P. dry pr.
canescens rare Tur. Mts.
pilosa Downy P. Wpg. dry pr.
Collomia (Gilia) G.
linearis Narrow-leaved C. dry pr.

HYDROPHYLLACEAE.

Nyctelea (Ellisia)
Nyctelea N. moist s.
Phacelia
Franklinii Franklin's P. Swan R.

BORAGINACEAE.

Helitropium
curassavicum Linear-lvd. H. (Bur.)? (Bur.)?
spatulatum* Spatulate-lvd. H. H. Deleau
Cynoglossum
officinale Gipsy Flower (B.B.) (B.B.)
Lappula (Echinosperrnum) G. G.
texicana (Redowskii var. occ.) R. waste pl.
Lappula (echinata) Blue Bur. W.A. weed
deflexa var. americana G. W.F. wds., bluffs
floribunda W.F. a. W.B.
Oreocarya (Eritrichium)(Krynitzkia) G.
glomerata Clustered O. dry s.
Cryptantha
crassisejala Thick-lvd. C. Stony Mt
Mertensia
paniculata Tall Lungwort wds., N.Man.
lanceolata Lance-lvd. L. wds. S.B.
Lithospermum
canescens Hoary Puccoon dry pr.
linearifolium (angustifolium) W.F. dry s.
Onosmodium
Occidentale Gromwell Boissevain
(carolinianum) Bur.

VERBENACEAE. Vervain Family

Verbena
hastata Vervain wet s., V.B.
bracteosa Blue V. dry pr., Lena
Large-bracted V.

LABIATAE. Mint Family

Teucrium		
canadense	Wood Sage	low, rich l.
Scutellaria		
lateriflora	Blue Skullcap	E.K.
galericulata	(Bur.)	N. Man.
Agastache	(Lophanthus) Bur. Hyssop	
anethiodora	(anisatus)(Foeniculum) W.F.	pr.
Nepeta		
Cataria	Catnip	Mdn. E.K.
Glecoma	(Nepeta) W.F.	
hederacea	Ground Ivy p.	shady pl. Elm p.
Moldavica	(Dracocephalum) G.	new break, A-Bi.
parviflora	Amer. Dragonhead	com. weed
Prunella	(Brunella) G.	
vulgaris	Self-heal	wet meadows
Dracocephalum	(Physostegia) G.	P.
virginianum	Obedient Plant	Moist s.
Nuttallii	(parviflora) W.F.	wet pl.
Galeopsis		
Tetrahit	Hemp Nettles	Dom. City
Lamium	Dead Nettles	
amplexicaule	Henbit	Grvw.
Stachys		
palustris	Woundwort	P. Com. Jy. 1
Monarda		
mollis	Bergamot	gen.
Clinopodium		
vulgare	Basil-weed	wds. (B.B.)
Lycopus	Hoarhound	P.
uniflorus	Nrn Bugle-weed	low, com.
americanus	(sinuatus) Bur.	wet pl.
asper	(lucidus) Bur.	wet s.
Mentha	Wild Mint	
canadensis	(arvensis) var can. W.F.	P. com. wet s.

SOLANACEAE. Potato Family

Physalis		
lanceolata	Ground Cherry	V.B.
Leucophysalis	(Physalis)	
grandiflora	Large White G.C.	Com., V.B.
Solanum		
triflorum	Cut-lvd. Nightshade	gen.
rostratum	Buffalo-bur.	S.W.
nigrum	Deadly Nightshade	local Br.) W.F.

SCROPHULARIACEAE. Figwort Family

Linaria	Toad Flax	Cypress R. S.W.
Linaria	(vulgaris) G.	local weed
Chelone		
glabra	Turtle-head	Str. (B.B.
Pentstemon	Beard-tongue	
erianthera	(cristatus) G.	pr., bluffs
acuminatus	Sharp-lvd. B.T.	dry s.
gracilis	Slender B.T.	dry s.

Pentstemon—Continued

procerus (R)	(confertus var. coeruleo-purpureus) Bur.	
albidus	Beard-tongue	dry p. W.
Collinsia		
tenella	Small-flowered C.	L. Wpg.
Mimulus		
ringens	Monkey Flower	wet s. N. & W.
Gratiola		
virginiana	Clammy Hedge Hyssop	wet pr.
Limnoloba		
aquatica	Mudwort	York F.
Veronica		
americanum	American Brooklime	slow str.
scutellata	Speedwell	wet pl.
peregrina	Neckweed (rare)	dry s. (Bur.)
Anagallis - aquatica	Water Speedwell	str. and ditches
Leptandra		
virginica	Culver's Root	Wpg. V.E.B. (M.)
Agalinis	(Gerardia)	
tenuifolia	E.B. (Burman)	dry wds.
Castilleja	Indian Paint-brush	Parasitic
sessiliflora	Downy Painted Cup	Napinka W.
coccinea*	Painted Cup (red and yellow)	wet ditches
acuminata*	Painted Cup	Camper
Orthocarpus		
luteus	Yellow Ortho.	dry pr. com.
Pedicularis		Perennials
lanceolata	Swamp Lousewort	wet pr.
canadensis	Wood Betony	Nrn. Wds.
Elephantella	(Pedicularis) G.	
groenlandica	Long-beaked P.	York F. W.

LENTIBULARIACEAE. Bladderwort Family

Utricularia		
macrorhiza	(vulgaris var. amer.) G.?	Stagnant water
intermedia	Flat-lvd. B.	com.
		not com.

OROBANCHACEAE. Parasites

Thalesia	(Aphyllon)	on Artemisia
fasciculata*	Cancer-Foot	Millwood, W.B.

PHRYMACEAE. Lopseed Family

Phryma		(Groh).
leptostachya*	Lopseed	Morden Wds.

PLANTAGINACEAE. Plantain Family

Plantago		
major	Common P.	in lawns
Rugelii	(WF.)	waste pl.
eripoda	Saline P.	sal. s. com.
maritima	(decipiens) Bur.	saline s.
elongata	Slender P.	Brenda, S.B.
lanceolata	Rib Grass (not thriving)	intr. in gr. seed

RUBIACEAE. Madder Family

Houstonia		
longifolia	(purpurea var. longifolia)	C.H. Br. Nor. H.

Galium		
boreale	Nrn. Bedstraw	com. June 8
triflorum	Bedstraw	moist s.
trifidum	Small B.	wet. shade

CAPRIFOLIACEAE. Honeysuckle Family

Sambucus		
canadensis	Common Elder	moist s. E.B.
racemosa	Red Elder	Delta, rare
Viburnum		
opulus	Highbush Cranberry	low gr. com.
pauciflorum	Few-flwd. C. (3ft.)	Norway H.
Lentago	Nannyberry	com.
pubescens	Downy Arrow-wood	R.R.V. Br.
cassinoides	G. and B.B.	swamps E.B.
Linnaea		
americana	(borealis) Twin Flower	cool wds.
Symphoricarpos		
racemosus	Snowberry	not com.
var. pauciflorus	W.F. 10in. high or less	local L. Wpg. W.
occidentalis	Wolfberry	gen.
Lonicera	Honeysuckles	
hirsuta	Hairy H.	wds. E.B.
dioica	(glauc) rare	R.R.V.
Sullivantii	rare	R.R.V.
oblongifolia	Swamp Fly H.	wds. com. N.
glaucescens	Douglas H. (W.F.)	rich wds. com.
Diervilla	(Lonicera) L.	Weigela
Diervilla	(trifida) Bur.	dry wds.

ADOXACEAE. Moschatel Family

Adoxa		
Moschatellina	Musk Root, rare	Lat. 54-64

VALERIANACEAE. Valerian Family

Valeriana	Valerian	Local
edulis	Tobacco-root	Swan R.
officinalis*?	Common V.	Ochre R.

CUCURBITACEAE. Gourd Family

Micrampelis	(Echinocystis)	com.
lobata	Wild Cucumber	wds. July 1

CAMPANULACEAE. Bellflower Family

Campanula	Bluebell	
rotundifolia	Harebell	open pr. com.
aparinoides†	Bellflower	Wpg. B. Wa.

LOBELIA. Lobelia Family

Lobelia		P.
Kalmii	Kalm's L.	wet pr.
spicata	(var. hirtella) Ple. Spkd. L.	Wr. Ln.
inflata?	Eyebright A.	Sask. R. H.B.
Dortmanna	Water L. (Bur.) rare	pond edges

CHICORIACEAE. Chicory Family

Cynthia		
virginica	Goatsbeard p.	L. Wpg. Local
Tragopogon		
pratensis	Yellow Goatsbeard	com. bi.
Leontodon	(Taraxacum) G.	perennial
Taraxacum (officinale)	Dandelion	ubiquitous
erythrospermum	Red-seed D.	com.
latilobum	(var. alpinum) Mtn D. rare	Ft. Ellice
Sonchus		
arvensis	Perennial Sow-thistle	R.R.V. and W.
oleraceus	Annual S.	scarce
asper	Spiny S. a.	gardens
Lactuca	Lettuce	
virosa (Scariola)	G. Prickly L. bi.	Intr. Brn. Wskda.
pulchella	Blue L. p.	com.
spicata	(leucophaea) a. or bi.	moist s.
Lygodesmia		
juncea	Skeleton Weed p.	dry sandhills
Agoseris	(Troximon) G.	
glauc.	Large-fl. A. p.	pr.
parviflora	Small-fl. A. p.	pr. B.B. M.
cuspidata	Pr. Dandelion	Ft. Ell. W.
Crepis		
runcinata	Hawksbeard p.	R.R. pr.
glauc.	Glaucous H. p.	alk. s. (M) W.
Hieracium		
canadense	Canada Hawkwood p.	mst. pr. W.F.
scabriusculum	(umbellatum) Bur. & M.	York F.
venosum	scarce (B.B.)	dry wds.
Nabalus	(Prenanthes) G.	
altissimus	Tall White Lettuce p.	bluffs
albus	White L.	wsd.
racemosus	Glaucous White L.	waste pl. rds.

AMBROSIACEAE.

Iva		
axillaris	Poverty Weed p.	alk. s. W.B.
xanthiifolia	False Ragweed a.	waste pl.
Ambrosia	Ragweed	
trifida	Great R. Kinghead	cult. fids.
elator	(artemisiaefolia) a.	dry s. June 16
psilostachya	Western R. (native) p.	gen.
Gaertneria	(Franseria) M.	Sask.
acanthicarpa	Hooker's G.	R.R.V. a.
Xanthium	Clotbur a.	
echinatum	Beach C. a.	sandy bchs.
glanduliferum	Glandular C. a.	dry s.
Macounii	Macoun's C. a.	L. Wpg.
commune	Cocklebur a.	moist s.
americanum		R.R. banks

COMPOSITAE. Thistle Family

Vernonia		
corymbosa	Western Iron Weed	vlys. S.B. (B.B)
Eupatorium		
purpureum	Joe Pye-weed p.	moist s.
perfoliatum	Boneset p.	wet s. E.B.
Lacinaria	(Liatris) G.	
punctata	Lesr. Btn. Snakeroot p.	dry s.
scariosa	Blazing Star p.	dry s. com.
Gutierrezia	Broomweed p.	Vrdn. Rstn.
Sarothrae	(Euthamiae) G.	Tur. M. W.
Grindelia		
squarrosa	Gum Weed bi.	open pr.
Chrysopsis	Golden Aster	
villosa	Hairy G.A. p.	dry pr. com.
hispida	G.A. p.	dry pr. (B.B.)?
Solidago	Golden Rod p.	
hispida	Hairy G.R.	dry s. (B.B.)
multiradiata?	Northern G.R.	York F.
missouriensis	Tur. Mt. A.R.W.	dry pr.
canadensis	Canada G.R.	bluffs com.
humilis var. stricta	G. (racemosa var. Gillmanii	G. Tur. Mtns. (M.)
junceae	Sharp-toothed G.R.	bluffs W.F.
serotina	Late G.R.	R.R. pr.
glaberrima	like missouriensis	dry pr.
mollis G.	nemoralis	dry pl.
rigida	stiff G.R.	gen. com.
Euthamia	(Solidago) G.	
graminifolia	(lanceolata) Flat-topd. G.R.	moist s.
Townsendia		
exscapa	(sericea) Bur.	dry pr. W.B.
Aster		
laevis	Smooth A. p.	dry s.
cordifolius	Blue Wood A. (Bur.)	wds. com.
Lindleyanus	Lindley's A.	mst. wds. com.
multiflorus	Many Flowered A.	dry pr. com.
salicifolius	Willow A. (Bur.)?	moist s.
novi-belgii	New York A. (Bur.)?	
ptarmicoides	Upland White A.	dry s. com.
lutescens	(Bur.) Yellow-ray A.	Assiniboine R.
pauciflorus	Few-flowered A.	L. Wpgosis.
lateriflorus	(miser) Bur.	E.B.
punicus	Purple-stemmed A.	moist s. com.
sericeus	Silky A.	dry bnks. E.B.
comutatus	White Pr. A.	pr. com.
paniculatus	(W.F.)	moist s.
var. bellidiflorus	A. (G.)	L. Wpg.
Erigeron	Fleabane	
asper	(glabellus)	dry s.
caespitosus	Tufted E.	York F.
pumilus	Low E.	Napinka
hyssopifolius		York F.
philadelphicus		low, grassy, pl.
ramosus	(strigosus) Daisy F.	moist fids.

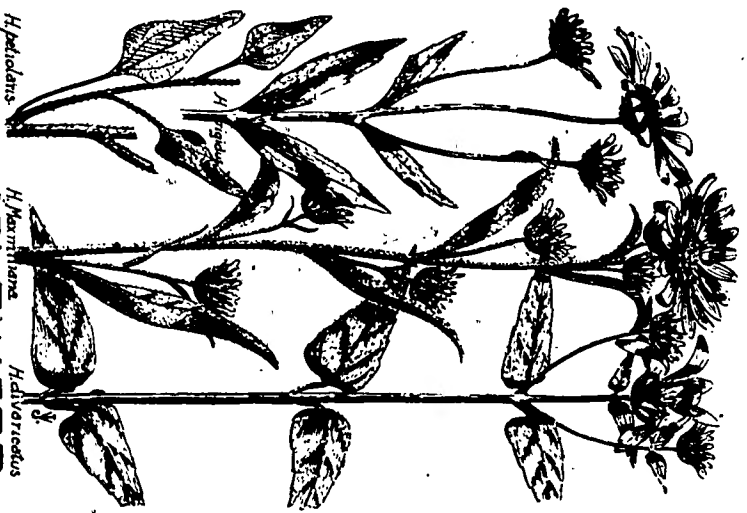
Leptilon canadense	(Solidago) Fireweed	waste pl.
Doellingeria umbellata	(Aster) Flat-topped White Aster p.	moist s.
Antennaria carpathica	Everlasting A. p.	York F.
alpina	Alpine Everlasting A. p.	York F.
plantaginifolia	Plantain-leaf E.A. (Bur.) p.	dry s.
microphylla	Catsfoot p.	Reston
aprica	(dioica) p.	dry pr.
campestris	Prairie Catsfoot p.	dry pr.
Anaphalis margaritacea	Pearly Everlasting A. p.	dry s.
Gnaphalium obtusifolium	Fragrant E.A. a.	E.B. L. Wds.
Heliopsis scabra	Rough Ox-eye p.	R.R. pr.
Rudbeckia hirta	Black-eyed Susan bi. a.	pr.
laciniata	Green Headed Cone Flower p.	Assiniboine R.
Ratibida columnaris	(Rudbeckia) Prairie Cone Flower p.	dry pr.
pinnata	C.P.R. trks, Louise Brdg & Pannet Rd. p.	
Echinacea angustifolia	Purple Cone Flower p.	S.W.
Helianthus scaberrimus	Sunflowers (rigidus) Stiff S. p.	moist pr.
giganteus	Wild S. p.	marsh edges
annuus	Common S.	rare, wild w.
petiolaris	Prairie S. a.	S.W.
subrhomboides	Rhombic-ld. S.	pr. W.
Maximiliani	Maximilian's S. p.	dry pr. com.
divaricatus	Woodland S. p.	dry wds. com.
doronicoides?	(BOblong Leaf S.	dry s.
tuberosus	Jerusalem Artichoke	R.R. banks
Nuttallii (M)		Tur. Mts.
Coreopsis palmata?	M. and G. records	dry pr. rare
Bidens cernua	(4 awns) Bur Marigold a.	wet pl.
frondosa	(2 awns) Beggar Ticks a.	wet ditches
vulgata? f. var.	puberula) G. (10-16 bracts)	moist s.
connata	(2-4 awns) hds erect	moist pl.
Helenium autumnale	Swamp Sunflower p.	wet meadows
Gaillardia aristata	Gaillardia p.	pr.
Achillea Ptarmica	(multiflora) (M) Wht. T. p.	H.B.R. L.M.W.
millefolium	Yarrow p.	com. intr.
lanulosa?	Woolly Yarrow p.	

Anthemis	(Maruta)	
Cotula	Mayweed a.	waste pl. intr.
Chrysanthemum		
Leucanthemum	Ox Eye Daisy p.	waste pl.
Tanacetum		
vulgara	Tansy	escaped
Matricaria		
inodora	Scentless Camomile a.	York F.
Artemisia		
caudata	Wild Wormwood bi. p.	W. of Ft. Ellice
canadensis	Canada W. p. (bi.)	
dracunculoides	Linear-lyd. W.R. p.	sndy. ridges
glauca	Silky W. p.	dry pr.
frigida	Wormwood Sage	arid s.
Abqinthium	Com. W. p. intr.	about towns.
biennis	Biennial W. a. or b.	fds.
vulgaris var. elatior)	R. Com. Mugwort p.	intr. N.B.
gnaphalodes	(ludoviciana) W.F. var. gnaph)	pr. com.
Petasites		
sagittata	Sweet Coltsfoot p.	wet s.
trigonophylla	Arctic C. p.	L. Man. W. Wa.
Arnica		
alpina	(fulgens) W.F. (pedunculata)	Ft. Garry Drive
foliosa	(Bur.) p.	Ft. Ellice W.
mollis*	Hairy Arnica p.	Stewart L.
Senecio		
palustris	Marsh Groundsel a. or bi.	swamps com.
Jacobaea	Tansy Ragwort p.	Erickson
canus	Silvery G. p.	Baldur
aureus	Golden Ragwort W.F.	wet grass pl.
pseudoreus*	Golden R. p.	S.wd. Golf C.
pauperculus	(aureus var. halsamitae) W.F.	Brenda
integerrimus	Entire leaved G. p.	wet s.
densus*	Western Squaw-weed p.	Deloraine S.
lucens?	(Bur.)? B.B.	wet s.
eremophilus	(Bur.) not known now	wds.
Arctium		
Lappa	Great Burdock bi.	waste pl.
minus	Common B. bi.	about towns
Cirsium	(Cnicus)	
undulatum	Pr. Thistle. variable bi.?	com. p.
var. megacephalus	Big Headed Thistle	occasional
Drummondii	(Bur.) scarce	L. Wpgosis.
arvense	Canada T. p.	weed
muticum	Swamp T. bi.	swamps

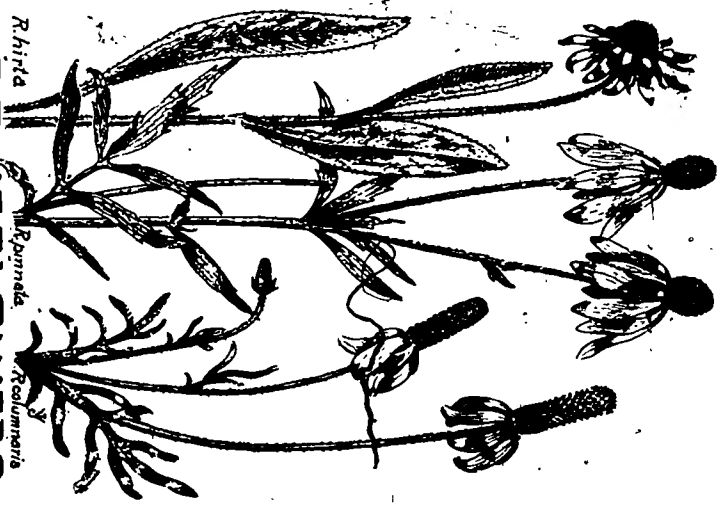


Summary of Manitoba Flora

	Species
Ferns	27
Marsilea	1
Horsetails	8
Club Mosses	6
Total non-flowering plants	42
 Pine Family	 12
Water Plants	26
Grasses	105
Sedges	77
Liliacæe	18
Orchids	24
Five other families	24
Total Monocots	286
 Chenopodiaceæ	 19
Ranunculaceæ	37
Cruciferae	34
Rosaceæ	38
Leguminosæ	46
Scrophulariaceæ	24
Chicoriaceæ	23
Compositæ	124
 8 principal families	 345
79 other families	357
Total Dicots	702
 Total flowering plants	 987
 GRAND TOTAL	 1029



Helianthus
H. Maximiliani
H. divaricatus
SUNFLOWERS



R. hirta
R. pinnata
R. coccinea
GONIFLOWERS